

## CLAIMS

What is claimed is:

- 1 1. (Original) A watercraft lifting apparatus, comprising:
  - 2 a buoyant support apparatus having a support frame configured to be anchored
  - 3 with respect to a body of water and a floatable frame slidably mounted on the support
  - 4 frame; and
- 5 a lift attached to the buoyant support apparatus, the lift comprising:
  - 6 a base;
  - 7 a first boom having a first end pivotally joined to said base to rotate about
  - 8 a first axis and a boom extension projecting from said first end thereof;
  - 9 a second boom having a first end pivotally joined to said base to rotate
  - 10 about a second axis;
  - 11 water craft supports pivotally connected to said booms; and
  - 12 an actuator pivotally connected to said boom extension to rotate about a
  - 13 third axis that is offset from the first axis and pivotally connected to said second
  - 14 boom between the first end thereof and a distal end.
- 1 2. (Original) The watercraft lifting apparatus recited in claim 1 wherein the third axis is
- 2 parallel to and offset away from the first end of the first boom and away from the first
- 3 axis.
- 1 3. (Original) The watercraft lifting apparatus recited in claim 1 wherein the first boom is
- 2 joined to said base at a first pivot point positioned between the first end thereof and a
- 3 distal end of said boom extension, and said actuator is pivotally connected adjacent said
- 4 distal end of said boom extension.
- 1 4. (Original) The watercraft lifting apparatus recited in claim 3 wherein said first boom
- 2 has a first length and said second boom has a second length different from said first
- 3 length.

1    5. (Original) The watercraft lifting apparatus recited in claim 4 wherein said second  
2    boom is pivotally connected to said base at a second pivot point spaced a vertical distance  
3    below said first pivot point.

1    6. (Original) The watercraft lifting apparatus recited in claim 5 wherein said second  
2    length is essentially equal to said first length plus said vertical distance.

1    7. (Original) The watercraft lifting apparatus recited in claim 1 wherein said first boom  
2    includes laterally opposed structural portions pivotally joined to said base and a hull-  
3    clearing channel portion formed therebetween and projecting out of the plane of said  
4    laterally opposed structural portions.

1    8. (Original) The watercraft lifting apparatus recited in claim 7 wherein said hull-clearing  
2    channel portion is formed in a "V" shape.

1    9. (Amended) A watercraft lifting apparatus comprising:

2                a buoyant support apparatus comprising a buoyant frame slidably mounted to a  
3    fixed frame configured to be fixed to the floor of a body of water; and

4                a lift attached to the buoyant frame, the lift comprising:

5                        a generally rectangular base having a longitudinal axis;

6                        first and second pairs of booms, each of said first and second pairs of  
7    booms having first ends and second opposite ends, said first ends pivotally  
8    connected to said base at opposite ends of said longitudinal axis, said first boom  
9    including a boom extension projecting from said boom adjacent said pivotal  
10   connection to said base such that said pivotal connection to said base is positioned  
11   between said second end of said first pair of booms and a distal end of said boom  
12   extension;

13                   watercraft supports pivotally connected to said second ends of said first  
14                   and second pairs of booms whereby a four-bar linkage is formed; and  
15                   an actuator pivotally connected between said first and second pairs of  
16                   booms and operable for rotating said first and second pairs of booms, a first end of  
17                   said actuator pivotally connected to said first pair of booms adjacent said distal  
18                   end of said boom extension and a second end of said actuator pivotally connected  
19                   to said second pair of booms adjacent said second end of said second pair of  
20                   booms, whereby said watercraft supports are moved from a first position adjacent  
21                   said base to a second position spaced away from said base.

1   10. (Original) The watercraft lifting apparatus recited in claim 9 wherein said first pair of  
2   booms has a first length measured between said pivotal connection to said watercraft  
3   supports and said pivotal connection to said base, and said second pair of booms has a  
4   second length measured between said pivotal connection to said watercraft supports and  
5   said pivotal connection to said base different from said first length.

1   11. (Original) The watercraft lifting apparatus recited in claim 10 wherein said pivotal  
2   connection of said first pair of booms to said base defines a first pivot point and, said  
3   second pair of booms is pivotally connected to said base at a second pivot point spaced a  
4   vertical distance below said first pivot point.

1   12. (Original) The watercraft lifting apparatus recited in claim 11 wherein said second  
2   length is essentially equal to said first length plus said vertical distance.

1   13. (Original) The watercraft lifting apparatus recited in claim 9 wherein said first pair of  
2   booms further comprises:  
3                   laterally opposed structural portions pivotally joined to said base and said  
4                   watercraft supports; and  
5                   a shaped hull-clearing portion formed between said structural portions.

1    14. (Original) The watercraft lifting apparatus recited in claim 13 wherein said shaped  
2    hull-clearing portion is formed in a "V" shape.

1    15. (Amended)        A watercraft lifting apparatus comprising:  
2                a buoyant support apparatus; and  
3                a lift attached to the buoyant support apparatus, the lift comprising:  
4                        a generally rectangular base formed of two longitudinal beams joined at  
5                        each end by first and second transverse beams;  
6                        a first pair of booms comprising first and second booms each having first  
7                        and second opposite ends,  
8                        a boom extension projecting from said first ends, and  
9                        pivots adjacent said first ends for pivotally connecting said first and  
10                        second booms to a respective one of said longitudinal beams adjacent said first  
11                        transverse beam;  
12                        a second pair of booms having first and second opposite ends, said first  
13                        ends pivotally connected to a respective one of said longitudinal beams adjacent  
14                        to said second transverse beam;  
15                        a plurality of watercraft supports pivotally connected to said second ends  
16                        of said first and second pairs of booms; and  
17                        an actuator having a first end pivotally connected between said second  
18                        ends of said second pair of booms and said base, and a second end pivotally  
19                        connected adjacent to a distal end of said boom extension, said actuator operable  
20                        for rotating said first and second pairs of booms.

1    16. (Original) The watercraft lifting apparatus recited in claim 15 wherein said first pair  
2    of booms has a first length measured between said pivotal connection to said watercraft  
3    supports and said pivotal connection to said longitudinal beams, and said second pair of  
4    booms has a second length measured between said pivotal connection to said watercraft

5      supports and said pivotal connection to said longitudinal beams different from said first  
6      length.

1      17. (Original) The watercraft lifting apparatus recited in claim 16 wherein said pivots  
2      pivotally connecting said first pair of booms to said longitudinal beams define first pivot  
3      points and, said pivotal connection of said second pair of booms to said longitudinal  
4      beams define second pivot points spaced a vertical distance below said first pivot points.

1      18. (Original) The watercraft lifting apparatus recited in claim 17 wherein said second  
2      length is essentially equal to said first length plus said vertical distance.

1      19. (Original) A watercraft lifting apparatus, comprising:  
2              a pair of floats mounted to a support frame;  
3              a plurality of support stands slidably mounted to the support frame and configured  
4      for fixed attachment to the bed of a body of water; and  
5              a lift attached to the support frame, the lift comprising:  
6                  a base;  
7                  a first boom having a first end pivotally joined to the base to rotate about a  
8      first axis and a boom extension projecting from the first end thereof;  
9                  a second boom having a first end pivotally joined to the base to rotate  
10     about a second axis;  
11                  watercraft supports pivotally connected to the booms; and  
12                  an actuator pivotally connected to the boom extension to move the first  
13      boom, the second boom, and the water craft supports between a collapsed  
14      configuration and an extended configuration that is over center with respect to the  
15      collapsed configuration, the actuator configured to stop movement of the first  
16      boom, the second boom, and the watercraft supports in the extended configuration  
17      when the actuator reaches a maximum point of travel.

1    20. (Original) The watercraft lifting apparatus of claim 19, wherein the actuator is  
2    configured to rotate about a third axis that is offset from the first axis and pivotally  
3    connected to the second boom between the first end thereof and a distal end.

1    21. (Original) A watercraft lifting apparatus, comprising:  
2            a buoyant support apparatus; and  
3            a lift attached to the buoyant support apparatus, the lift comprising:  
4                a base;  
5                a first boom having a first end pivotally joined to the base to rotate about a  
6                first axis;  
7                a second boom having a first end pivotally joined to the base to rotate  
8                about a second axis;  
9                a watercraft support apparatus pivotally connected to a second end of the  
10              first boom and a second end of the second boom; and  
11              an actuator pivotally connected to the first and second booms to rotate  
12              about a third axis to move the first and second booms and the watercraft support  
13              apparatus between a collapsed configuration and an extended configuration that is  
14              over center with respect to the collapsed configuration, the actuator configured to  
15              fully extend and hold the first and second booms and the watercraft support  
16              apparatus in the extended configuration.

1    22. (Original) The watercraft lifting apparatus of claim 21, wherein the third axis is  
2    offset from the first axis and is parallel and offset away from the first end of the first  
3    boom and away from the first axis.

1    23. (Original) The watercraft lifting apparatus of claim 22, wherein the first boom is  
2    joined to the base at a first pivot point positioned between the first end thereof and a  
3    distal end of a boom extension formed on the first boom to which the actuator is attached,  
4    the actuator pivotally connected adjacent a distal end of the boom extension.

Response under 37 C.F.R. §1.116  
Expedited procedure for Group Number 3307